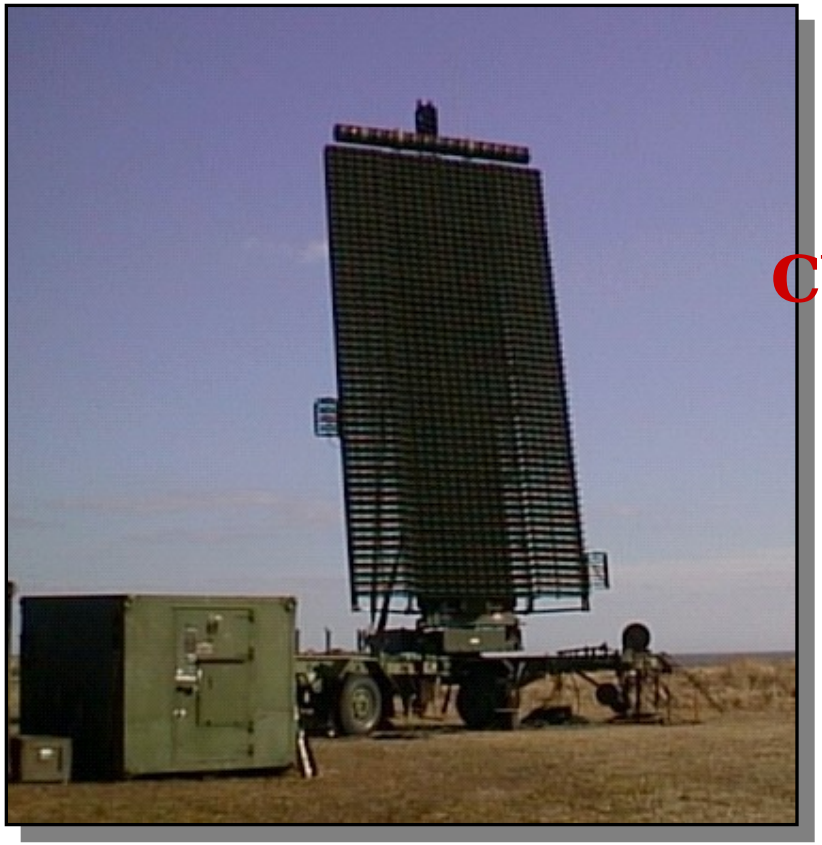
AN/TPS-59 (V)3 RADAR
Life Cycle & Acquisition Program



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59 Sensors Program Office

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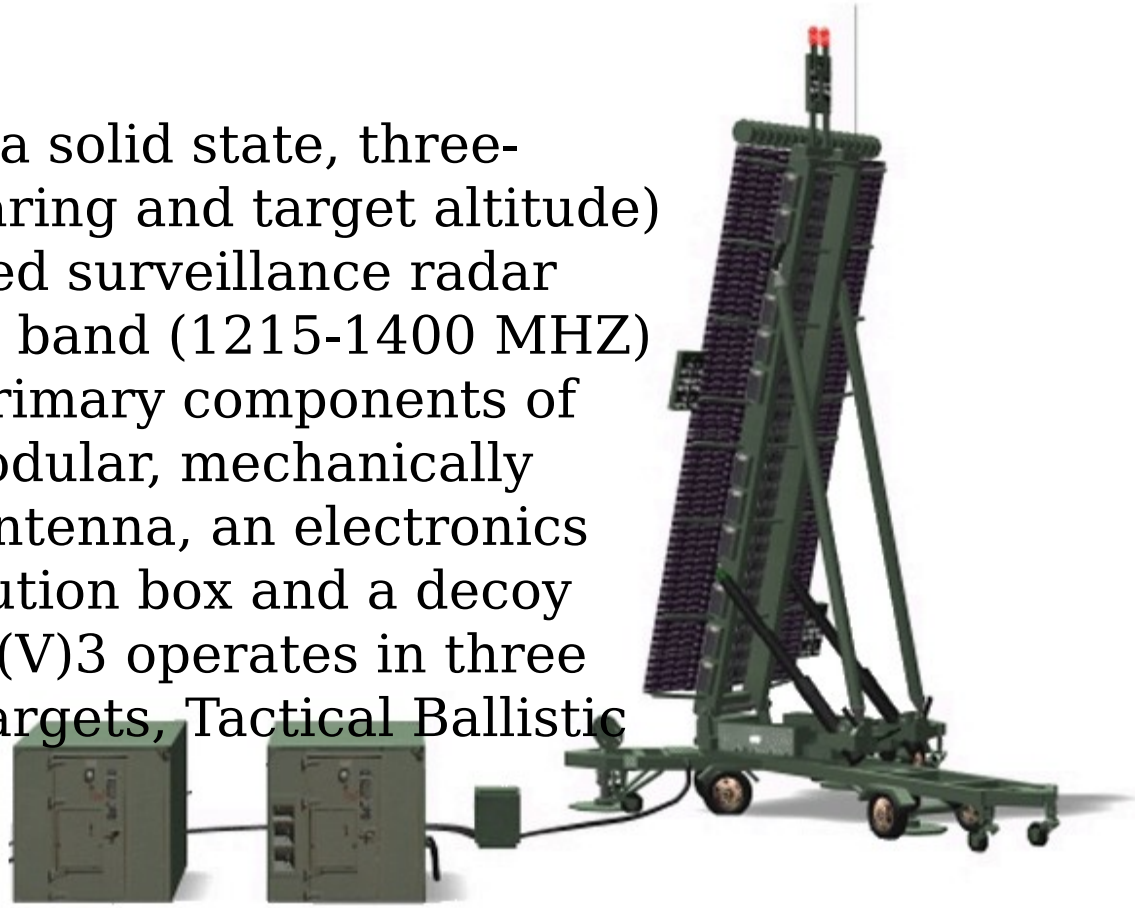
Overview

System Description:

The AN/TPS-59(V)3 is a solid state, three-dimensional (range, bearing and target altitude) long range, ground based surveillance radar which operates in the D band (1215-1400 MHZ) frequency range. The primary components of the system include a modular, mechanically rotated, phased array antenna, an electronics shelter, a power distribution box and a decoy system. The AN/TPS-59(V)3 operates in three modes: Air Breathing Targets, Tactical Ballistic Missile, and Combined.



Overview

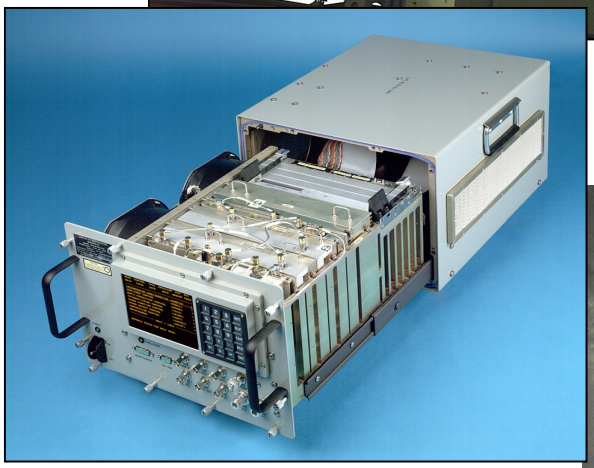
Capability Provided:

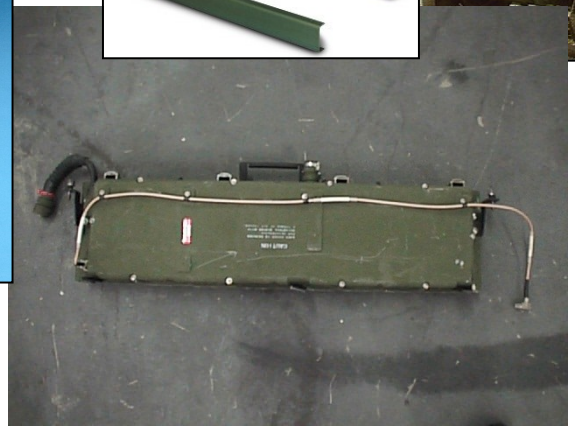
- **Sustaining** the AN/TPS-59(V)3 will ensure the radar remains viable until a modernized radar is funded and developed The sustainment plan will:
  - Develop and procure hardware solutions for existing DMS/obsolescence problems. The implementation of these capabilities will complement the Service Life Extension Plan (SLEP).
- **Modernization** enhancements will include requirements set forth in the Draft ORD, change 4, to include improved mobility, increased CID and SIAP capabilities, and interfaces with evolving Combat Systems (CEC/CTN, CAC2S and CLAWS)
  - Additionally, the modernized radar system will address emerging threats as identified in the AN/TPS-59(V)3 Threat Assessment Study.

AN/TPS-59(V)3 Current Programs

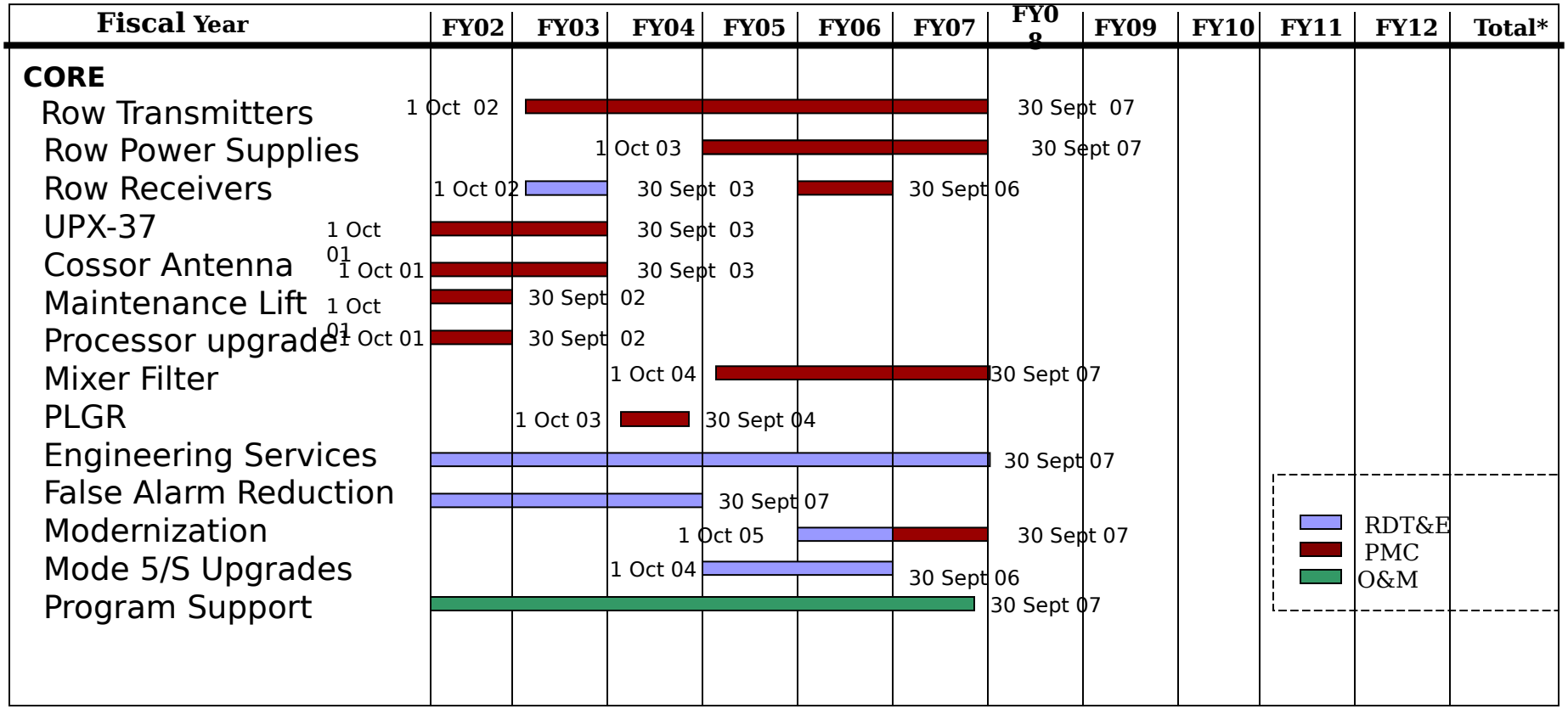
- **AN/TPS-59(V)3 Life Cycle Support (LCSAS) Contract**
  - 5 Year Contract
  - Engineering Services
  - Obsolescence (DMS)
  - Vendor Level Maintenance (VLM)
- **Main Areas of the LCSA&S Program:**
  - CLIN 0001, Integrated Product Team (IPT)
  - CLIN 0002, Diminishing Manufacturing Sources (DMS)
  - CLIN 0003, Vendor Level Maintenance (VLM)
  - CLIN 0004, Engineering Support Services (ESS)
  - CLIN 0005, Government Furnished Equipment (GFE)
  - CLIN 0006, Contract Data Item Deliverables
  - CLIN 0007, VLM
  - CLIN 0015, Maintenance Lift Production
  - CLIN 0016, Antenna Mobility Improvement Study (Completed)

AN/TPS-59(V)3 Current Programs





Milestone Schedule Sustainment (Core)



Program Objective Memorandum 04

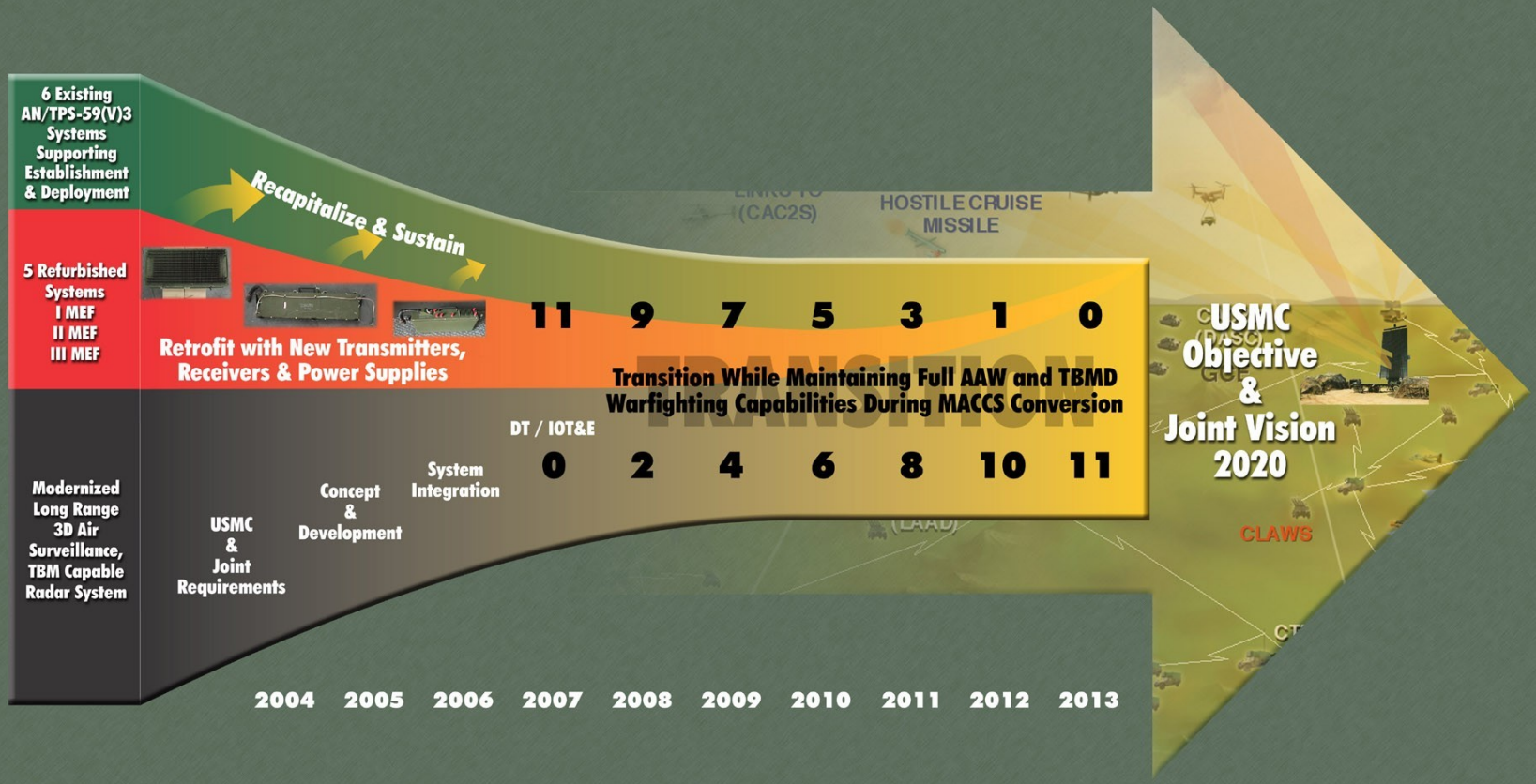
Acquisition Strategy

Basic Acquisition Strategy:

Sustainment: Address operational equipment readiness deficiencies until the AN/TPS-59 mobility initiative is complete. With funds allocated from POM 02 (CORE) and additional funding being requested in FY04, the program office intends to sustain 5 of the 11 systems. The refurbishing and sustainment of 5 systems, will provide each MEF Commander with systems that have current technology, which will increase equipment readiness, extend the overall system life cycle and reduce operating cost.

Modernization (Mobility): The modernization initiative will encompass all 11 radar systems within the Marine Corps inventory. Provided required funding is made available R&D efforts will commence in FY04 that will incorporate the ORD change 4 requirements into a new proposed system. It is anticipated that this effort will require 3 years of R&D with a combined DT/OT. Forecasted IOC is FY08 with FOC for 11 systems occurring in FY13.

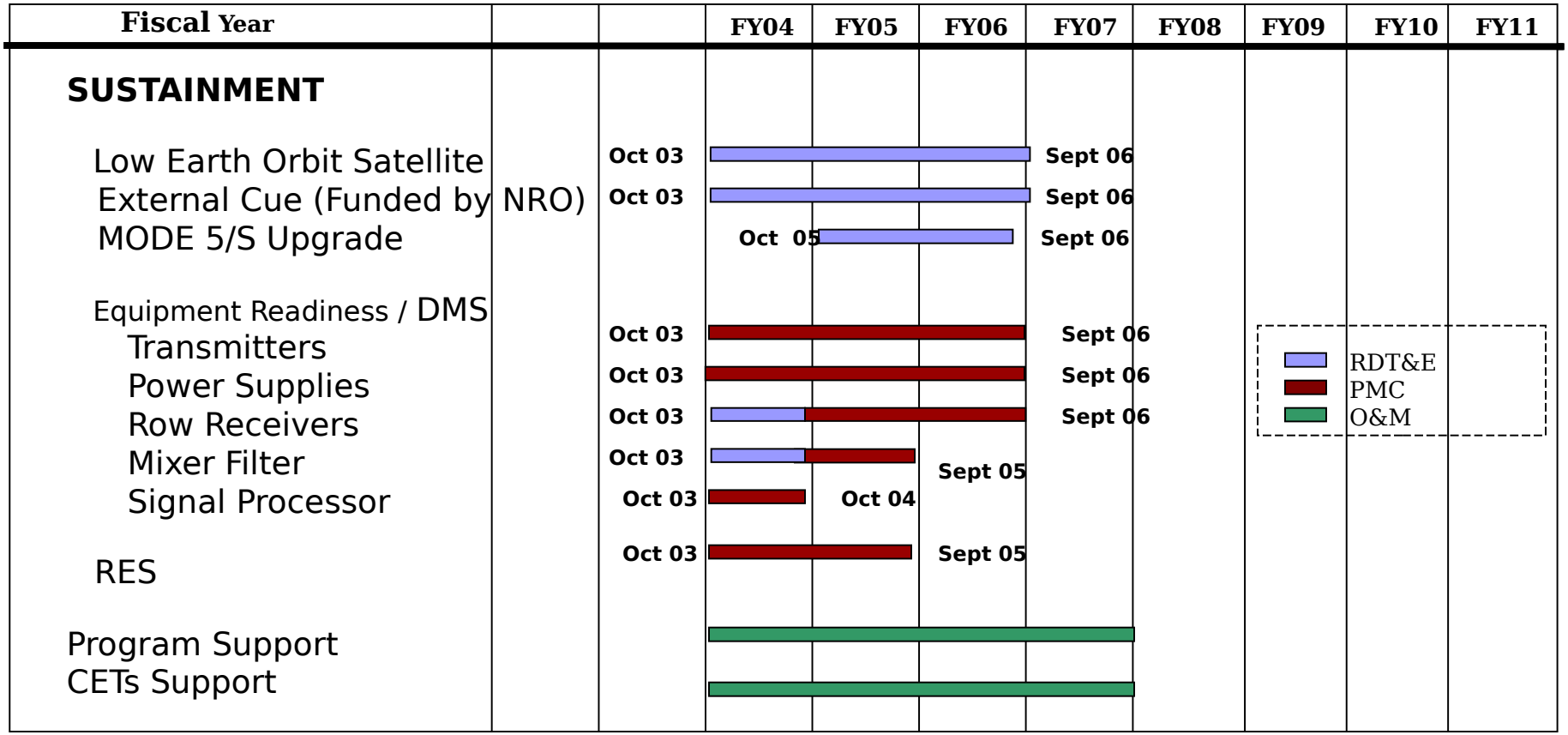
United States Marine Corps' Long Range Air Surveillance Sensor Strategy


6 Existing AN/TPS-59(V)3 Systems Supporting Establishment & Deployment
5 Refurbished Systems I MEF II MEF III MEF
Modernized Long Range 3D Air Surveillance, TBM Capable Radar System
Recapitalize & Sustain
Retrofit with New Transmitters, Receivers & Power Supplies
TRANSITION
Transition While Maintaining Full AAW and TBMD Warfighting Capabilities During MACCS Conversion
USMC & Joint Requirements
Concept & Development
System Integration
DT / IOT&E
0 2 4 6 8 10 11
11 9 7 5 3 1 0
2004 2005 2006 2007 2008 2009 2010 2011 2012 2013
USMC Objective & Joint Vision 2020
HOSTILE CRUISE MISSILE
CLAWS

INCREASING WARFIGHTER CAPABILITIES THROUGH MODERNIZATION AND MOBILITY ENHANCEMENTS WHILE MAINTAINING FLEET READINESS!

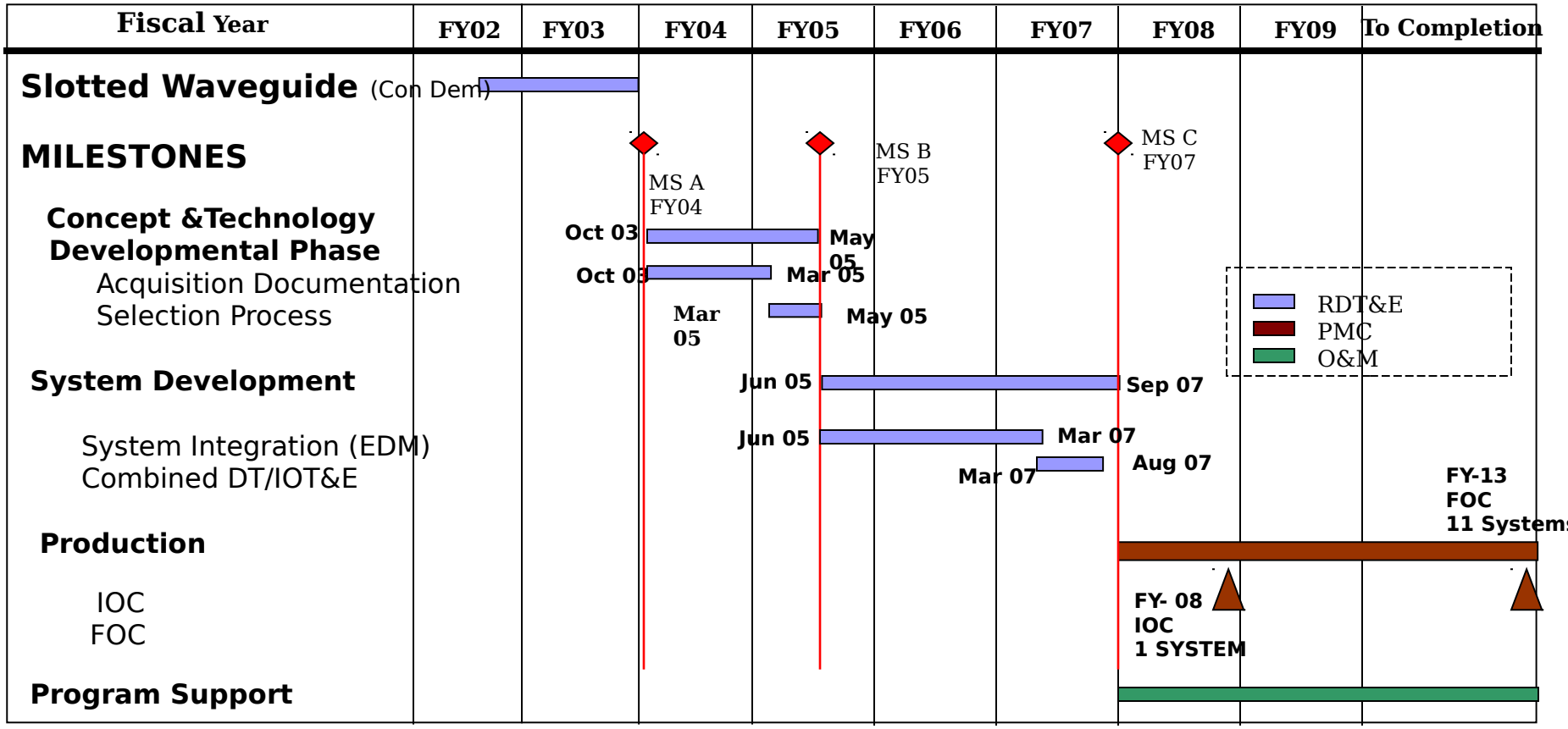
Milestone Schedule/Total Resource Summary

Sustainment



Milestone Schedule/Total Resource Summary

Modernization



QUESTIONS?